

What is claimed is:

1 1. An information processing device configured with at
2 least one interface section enabling a wake-up instruction
3 for starting up operationally stopped functional units in a
4 power-off state or a suspend state, a man-machine interface,
5 a memory, and a processor, connected by a chipset having a
6 bus control function, the information-processing device
7 characterized in that:

8 operational mode for the functional units when started
9 up from either said power-off state or said suspend state
10 being a normal operational mode use-enabling the functional
11 units in their entirety including the man-machine interface,
12 and an exclusive operational mode use-enabling some of the
13 functional units on starting up from either said power-off
14 state or said suspend state, including said interface
15 section having executed a wake-up instruction, said memory,
16 said processor and said chipset; wherein

17 said normal operation mode and said exclusive
18 operational mode are selected between by said interface
19 section having executed a wake-up instruction; and

20 when said exclusive operational mode is
21 terminated, the information-processing device goes to
22 its pre-start-up state, either said power-off state or
23 said suspend state.

1 2. An information-processing device as set forth in
2 claim 1, characterized in that data changed in the exclusive
3 operational mode and data change recognition flags
4 indicating data has been changed are stored in a
5 predetermined memory area different from a memory area for
6 storing data used in the normal operation mode.

1 3. An information-processing device as set forth in
2 claim 1, characterized in that:

3 start-up time is shorter and power consumption is lower
4 for said exclusive operational mode than for said normal
5 operational mode; and further

6 said normal operation mode and said exclusive
7 operational mode are started up selectively or exclusively.

1 4. An information-processing device as set forth in
2 claim 1, characterized in being configured to select the
3 exclusive operational mode, and to supply operational power
4 to and perform information processing on only resources used
5 in the exclusive operational mode, when the information-
6 processing device is started up from a designated said
7 interface unit or said input/output device.

1 5. An information-processing device according to claim
2 1, characterized in having:

3 an operation system for said normal operation mode, and
4 an operation system for said exclusive operational
5 mode;

6 the information-processing device therein being
7 configured to switch between said operation system for the
8 normal operation mode and said operation system for the
9 exclusive operational mode according to conditions for
10 starting-up from said power-off state and said suspend
11 state.

1 6. An information-processing device as set forth in
2 claim 5, characterized in that the designated said interface
3 unit is provided with a radio transmission-reception
4 function;

5 the information-processing device therein being
6 configured to set an exclusive operational mode flag when
7 the designated said interface unit via the radio
8 transmission-reception function receives a wake-up signal in
9 the suspend state, for causing a start-up process for said
10 operation system for said exclusive operational mode to be
11 carried out.

1 7. An information-processing device configured for
2 selectively use-enabling functional units thereof from
3 operationally stopped power-off or suspended states, the
4 information processing device comprising:

5 at least one interface section enabling a wake-up
6 instruction for starting-up the functional units of the
7 information-processing device from the power-off or
8 suspended states;

9 a man-machine interface;
10 a memory;
11 a processor; and
12 a chipset connecting the interface section, the man-
13 machine interface, the memory and the processor, said
14 chipset in cooperation with said memory and said processor
15 having a bus control function for bringing operational mode
16 of the information-processing device functional units when
17 started up from either said power-off state or said suspend
18 state into one of
19 a normal operational mode use-enabling the
20 functional units in their entirety including the man-
21 machine interface, and
22 an exclusive operational mode use-enabling some of
23 the functional units on starting up from either said
24 power-off state or said suspend state, including said
25 interface section having executed a wake-up
26 instruction, said memory, said processor and said
27 chipset; wherein
28 said interface section executing a wake-up
29 instruction selects between said normal operation mode
30 and said exclusive operational mode; and
31 when said exclusive operational mode is
32 terminated, the information-processing device goes to

33 one of said power-off state and said suspend state as
34 its pre-start-up state.

1 8. An information-processing device configured with
2 interface units, input/output devices, memory, a display
3 unit and a central processing unit, connected by a chipset
4 having a bus control function, wherein
5 operational mode when the information-processing device
6 is started up from either said power-off state or said
7 suspend state being a normal operation mode use-enabling
8 functions of the information-processing device in their
9 entirety as information processing functions, or an
10 exclusive operational mode use-enabling some functions of
11 the information-processing device as information processing
12 functions; the information-processing device therein
13 characterized in that:

14 said normal operation mode and said exclusive
15 operational mode are selected between according to start-up
16 conditions.

1 9. An information-processing device as set forth in
2 claim 8, characterized in that data changed in the exclusive
3 operational mode and data change recognition flags
4 indicating data has been changed are stored in a
5 predetermined memory area different from a memory area for
6 storing data used in the normal operation mode.

1 10. An information-processing device as set forth in
2 claim 8, characterized in that:

3 start-up time is shorter and power consumption is lower
4 for said exclusive operational mode than for said normal
5 operational mode; and further

6 said normal operation mode and said exclusive
7 operational mode are started up selectively or exclusively.

1 11. An information-processing device as set forth in
2 claim 8, characterized in being configured to select the
3 exclusive operational mode, and to supply operational power
4 to and perform information processing on only resources used
5 in the exclusive operational mode, when the information-
6 processing device is started up from a designated said
7 interface unit or said input/output device.

1 12. An information-processing device according to claim
2 8, characterized in having:

3 an operation system for said normal operation mode, and
4 an operation system for said exclusive operational
5 mode;

6 the information-processing device therein being
7 configured to switch between said operation system for the
8 normal operation mode and said operation system for the
9 exclusive operational mode according to conditions for
10 starting-up from said power-off state and said suspend
11 state.

1 13. An information-processing device as set forth in
2 claim 12, characterized in that the designated said
3 interface unit is provided with a radio transmission-
4 reception function;

5 the information-processing device therein being
6 configured to set an exclusive operational mode flag when
7 the designated said interface unit via the radio
8 transmission-reception function receives a wake-up signal in
9 the suspend state, for causing a start-up process for said
10 operation system for said exclusive operational mode to be
11 carried out.

1 14. A control method for an information-processing
2 device configured with interface units, an input/output
3 devices, a memory, a display unit and a central processing
4 unit, connected by a chipset having a bus control function,
5 characterized in that

6 operational mode when the information-processing device
7 is started up from either said power-off state or said
8 suspend state goes into a normal operation mode use-enabling
9 functions in their entirety as information processing
10 functions, or into an exclusive operational mode use-
11 enabling some functions as information processing functions;
12 the control method therein including the step of:

13 selecting between said normal operation mode and said
14 exclusive operational mode according to start-up conditions.

1 15. An information-processing device control method as
2 set forth in claim 14, wherein:

3 said exclusive operational mode is selected according
4 to start-up conditions from a designated said interface unit
5 or said input/output device;

6 the control method therein further characterized in
7 including the step of executing information processing in
8 accordance with said start-up conditions.

1 16. An information-processing device control method as
2 set forth in claim 14, wherein:

3 the information-processing device has an operation
4 system for said normal operation mode, and an operation
5 system for said exclusive operational mode;

6 the control method therein further characterized in
7 including the step of control-switching between said
8 operation system for the normal operation mode and said
9 operation system for the exclusive operational mode
10 according to conditions for starting-up from said power-off
11 state and said suspend state.

1 17. A recording medium storing a control program for an
2 information-processing device configured with interface
3 units, input/output devices, memory, a display unit and a
4 central processing unit, connected by a chipset having a bus
5 control function, the control-program storing recording

6 medium characterized in that thereon is stored a control
7 program including:

8 a process for executing a normal operation mode use-
9 enabling functions of the information-processing device in
10 their entirety as information processing functions;

11 a process for executing an exclusive operational mode
12 use-enabling some functions of the information-processing
13 device as information processing functions; and

14 a process for selecting said normal operation mode
15 according to normal start-up conditions when the
16 information-processing device is started up from either a
17 power-off state or a suspend state, and for selecting said
18 exclusive operational mode according to start-up conditions
19 from a designated said interface unit or said input/output
20 device.

1 18. An information-processing device configured with
2 interface units, input/output devices, memory, a display
3 unit and a central processing unit, connected by a chipset
4 having a bus control function, characterized by:

5 means for executing a normal operation mode use-
6 enabling functions of the information-processing device in
7 their entirety as information processing functions;

8 means for executing an exclusive operational mode use-
9 enabling some functions of the information-processing device
10 as information processing functions; and

